DEPARTMENT of ENVIRONMENTAL SERVICES Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: MOOSE POND	Lake Area (ha):	4.05
Town: PITTSBURG	Maximum depth (m):	3.3
County: Coos	Mean depth (m):	1.3
River Basin: Connecticut	Volume (m³):	53000
Latitude: 45°05'54" N	Relative depth:	1.5
Longitude: 71°22'56" W	Shore configuration:	1.08
Elevation (ft): 1377	Areal water load (m/yr):	
Shore length (m): 770	Flushing rate (yr^{-1}) :	20.70
Watershed area (ha): 173.5	P retention coeff.:	0.44
<pre>% watershed ponded: 1.2</pre>	Lake type: natural	w/dam

BIOLOGICAL:	21 January 1999	19 August 1998	
DOM. PHYTOPLANKTON (% TOTAL) #1	NO WINTER PLANKTON	DINOBRYON 65%	
#2	ANALYZED	CERATIUM 15%	
#3			
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)		13.53	
DOM. ZOOPLANKTON (% TOTAL) #1		NAUPLIUS LARVA 25%	
#2		KELLICOTTIA 22%	
#3		KERATELLA 13%	
ROTIFERS/LITER		326	
MICROCRUSTACEA/LITER		200	
ZOOPLANKTON ABUNDANCE (#/L)		568	
VASCULAR PLANT ABUNDANCE	R PLANT ABUNDANCE Scat/Common		
SECCHI DISK TRANSPARENCY (m) 2.		2.5	
BOTTOM DISSOLVED OXYGEN (mg/L)	4.6	9.2	
BACTERIA (E. coli, #/100 ml) #1			
#2			
#3			

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None Hypolimnion volume (m^3) : None Anoxic volume (m^3) : None

CHEMICAL:			MOOSE POI		
	21 Janua	ary 1999	19 1	August 19	98
DEPTH (m)	1.5		1.0		2.0
pH (units)	6.4	·	7.0		7.0
A.N.C. (Alkalinity)	15.4		31.6		31.8
NITRATE NITROGEN	0.74		< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN	0.40		0.40		0.40
TOTAL PHOSPHORUS	0.003		0.015		0.017
CONDUCTIVITY (µmhos/cm)	51.4		42.6		42.5
APPARENT COLOR (cpu)	11		23		24
MAGNESIUM			1.68		
CALCIUM			5.1		
SODIUM			1.0		
POTASSIUM			< 0.40		
CHLORIDE	< 2		< 2		< 2
SULFATE	4		3		2
TN : TP	380		27		24
CALCITE SATURATION INDEX			2.1		

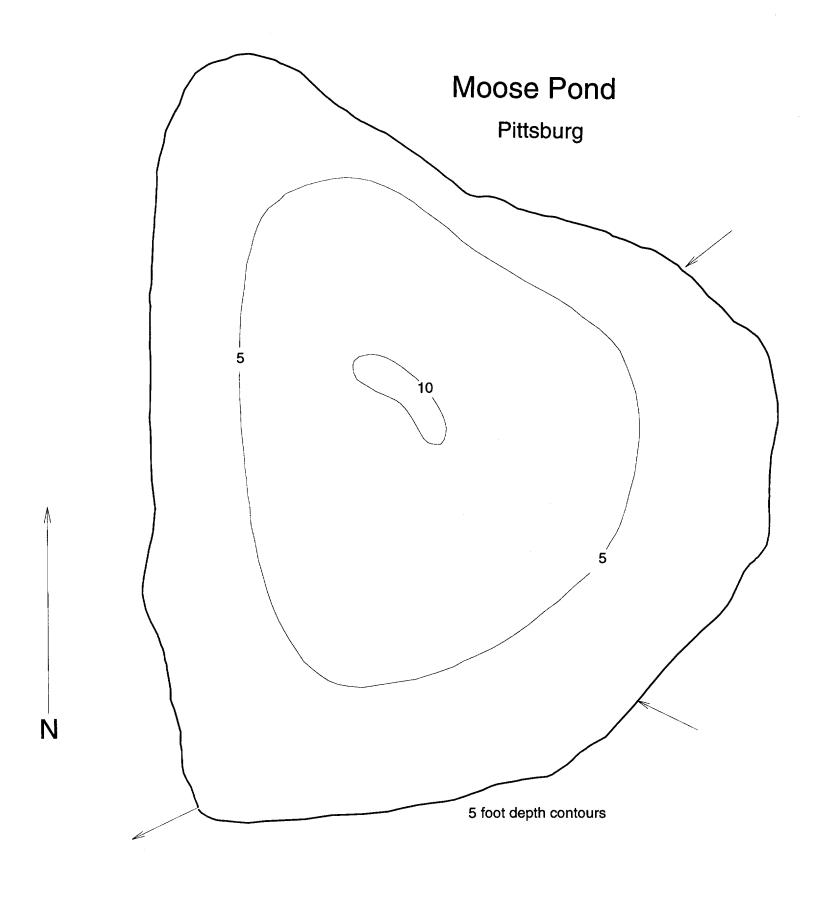
All results in mg/L unless indicated otherwise

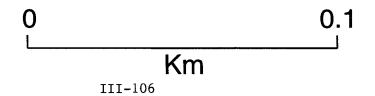
TROPHIC CLASSIFICATION: 1998

 D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	3	2	3	8	Meso.

COMMENTS:

- 1. No motors are allowed on the pond.
- 2. pH and particularly ANC were high this is good for a NH pond, probably due to the geology of the area.
- 3. One camp was present along the shoreline.





FIELD DATA SHEET

LAKE. MOOSE DOND

TOWN: PITTSBURG AR & SUNNY

THUE:	MOOSE FOND		TOWL
DATE:	08/19/1998	WEATHER:	CLEAF

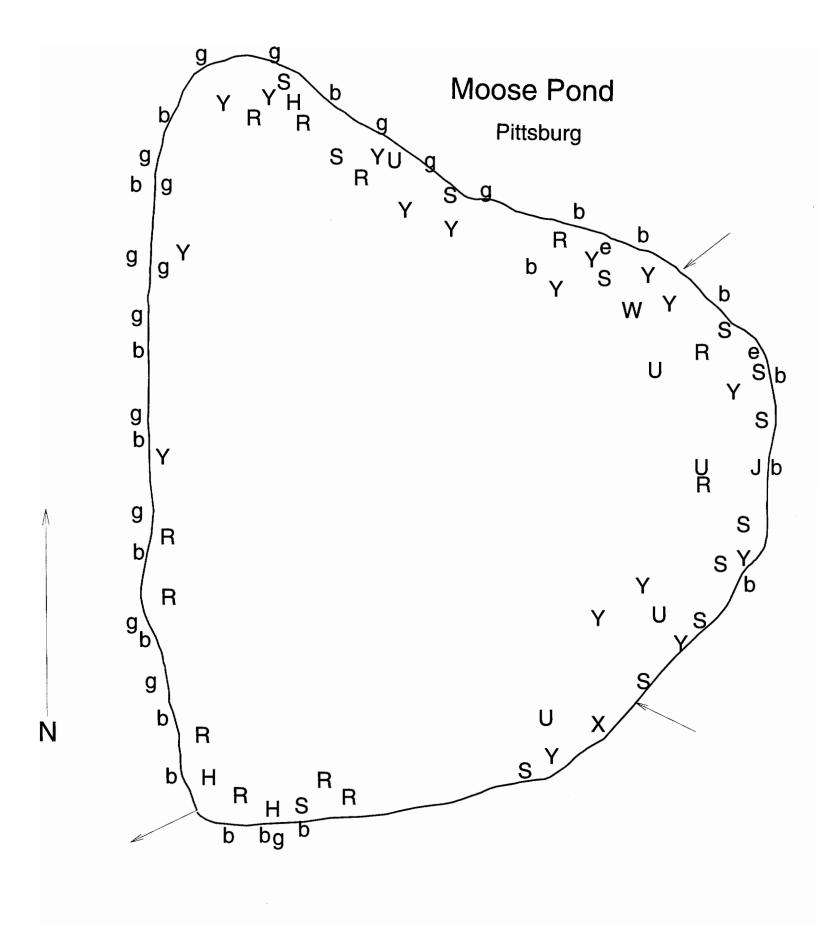
DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
0.1	19.4	9.9	107 %
0.5	19.3	9.8	106 %
1.0	19.1	9.9	108 %
1.5	19.0	10.2	109 %
2.0	18.9	10.2	109 %
2.5	18.6	9.2	98 %
	1.00		
	-		

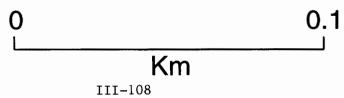
SECCHI DISK (m): 2.5 COMMENTS:

BOTTOM DEPTH (m): 2.7

TIME: 930

^{*}Dissolved oxygen values are in mg/L





AQUATIC PLANT SURVEY

E: MOOSE POND	TOWN: PITTSBURG DA	TE: 08/19/1998
PLANT	NAME	ABUNDANCE
GENERIC	COMMON	ABONDANCE
Hypericum boreale	St. John's-wort	Sparse
Sparganium	Bur reed	Scat/Common
Nuphar	Yellow water lily	Scat/Common
Myrica gale	Sweet gale	Scattered
	Unknown plant	Sparse
Eleocharis	Spike rush	Sparse
Juncus effusus	Soft rush	Sparse
Scirpus	Bulrush	Scattered
Utricularia	Bladderwort	Scattered
Potamogeton robbinsii	Robbins pondweed	Sparse
Potamogeton natans	Floating-leaf pondweed	Sparse
	GENERIC Hypericum boreale Sparganium Nuphar Myrica gale Eleocharis Juncus effusus Scirpus Utricularia Potamogeton robbinsii	GENERIC COMMON Hypericum boreale St. John's-wort Sparganium Bur reed Nuphar Yellow water lily Myrica gale Sweet gale Unknown plant Eleocharis Spike rush Juncus effusus Soft rush Scirpus Bulrush Utricularia Bladderwort Potamogeton robbinsii Robbins pondweed

OVERALL ABUNDANCE: Scat/Common

GENERAL OBSERVATIONS:

- 1. Filamentous green algae and sterile thread-like leaves were common throughout the pond but are not depicted on the map.
- 2. Freshwater sponges were observed.
- 3. The unknown plant consisted of a white flower that looked like an arrowhead flower but no leaves were observed.